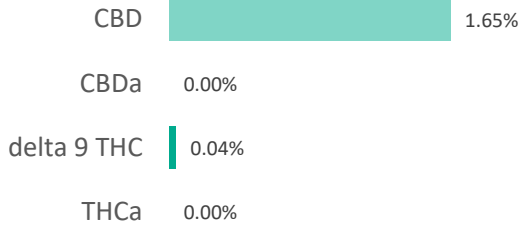
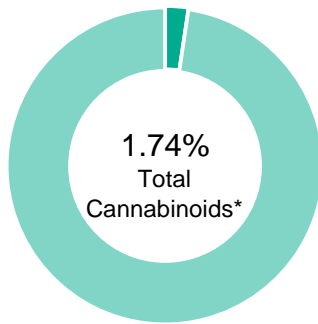


450mg Tincture Natural-Batch TGO4503154

Batch ID:	TGO4503154	Test ID:	5386259.0037
Reported:	10-Oct-2019	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.02	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	0.04	0.4
Cannabidiolic acid (CBDA)	0.03	0.00	0.0
Cannabidiol (CBD)	0.01	1.65	16.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.01	0.00	0.0
Cannabinolic Acid (CBNA)	0.02	0.00	0.0
Cannabinol (CBN)	0.01	0.00	0.0
Cannabigerolic acid (CBGA)	0.01	0.00	0.0
Cannabigerol (CBG)	0.01	0.02	0.2
Tetrahydrocannabivarinic Acid (THCVA)	0.01	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.01	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.02	0.00	0.0
Cannabidivarin (CBDV)	0.01	0.00	0.0
Cannabichromenic Acid (CBCA)	0.01	0.00	0.0
Cannabichromene (CBC)	0.02	0.03	0.3
Total Cannabinoids		1.74	17.40
Total Potential THC**		0.04	0.40
Total Potential CBD**		1.65	16.50


NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)


* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and } \text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$
FINAL APPROVAL


Alex Smith
10-Oct-2019
3:04 PM

PREPARED BY / DATE



David Green
10-Oct-2019
3:09 PM

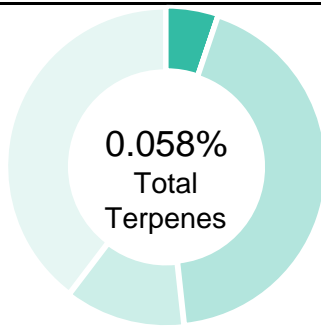
APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02

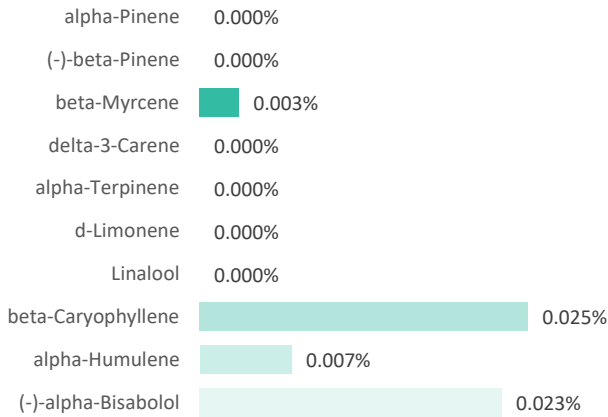


450mg Tincture Natural-Batch TGO4503154


Batch ID:	TGO4503154	Test ID:	2662061.0032
Reported:	9-Dec-2019	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.023	0.23
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.025	0.25
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.007	0.07
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.000	0
beta-Myrcene	0.003	0.03
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.000	0
beta-Ocimene	0.000	0
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.000	0
	0.058%	0.58

PREDOMINANT TERPENES

 NOTES:
 0

FINAL APPROVAL

 Daniel Weidensaul 9-Dec-2019 1:47 PM	 David Green 9-Dec-2019 2:13 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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450mg Tincture Natural-Batch TGO4503154

Batch ID:	TGO4503154	Test ID:	1892194.0022
Reported:	4-Dec-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	56 - 2600	ND*	Malathion	56 - 2600	ND*
Acetamiprid	56 - 2600	ND*	Metalaxyl	337 - 2600	ND*
Avermectin	337 - 2600	ND*	Methiocarb	56 - 2600	ND*
Azoxystrobin	56 - 2600	ND*	Methomyl	56 - 2600	ND*
Bifenazate	56 - 2600	ND*	MGK 264 1	56 - 2600	ND*
Boscalid	337 - 2600	ND*	MGK 264 2	337 - 2600	ND*
Carbaryl	56 - 2600	ND*	Myclobutanil	337 - 2600	ND*
Carbofuran	56 - 2600	ND*	Naled	337 - 2600	ND*
Chlorantraniliprole	56 - 2600	ND*	Oxamyl	56 - 2600	ND*
Chlorpyrifos	337 - 2600	ND*	Paclobutrazol	56 - 2600	ND*
Clofentezine	56 - 2600	ND*	Permethrin	337 - 2600	ND*
Diazinon	56 - 2600	ND*	Phosmet	56 - 2600	ND*
Dichlorvos	337 - 2600	ND*	Prophos	337 - 2600	ND*
Dimethoate	56 - 2600	ND*	Propoxur	337 - 2600	ND*
E-Fenproximate	337 - 2600	ND*	Pyridaben	337 - 2600	ND*
Etofenprox	337 - 2600	ND*	Spinosad A	56 - 2600	ND*
Etoxazole	337 - 2600	ND*	Spinosad D	337 - 2600	ND*
Fenoxycarb	56 - 2600	ND*	Spiromesifen	56 - 2600	ND*
Fipronil	337 - 2600	ND*	Spirotetramat	337 - 2600	ND*
Flonicamid	56 - 2600	ND*	Spiroxamine 1	56 - 2600	ND*
Fludioxonil	337 - 2600	ND*	Spiroxamine 2	56 - 2600	ND*
Hexythiazox	337 - 2600	ND*	Tebuconazole	56 - 2600	ND*
Imazalil	337 - 2600	ND*	Thiacloprid	56 - 2600	ND*
Imidacloprid	56 - 2600	ND*	Thiamethoxam	56 - 2600	ND*
Kresoxim-methyl	56 - 2600	ND*	Trifloxystrobin	337 - 2600	ND*

* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL


 Sam Smith
 4-Dec-2019
 6:32 AM
 PREPARED BY / DATE


 David Green
 4-Dec-2019
 8:47 AM
 APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

450mg Tincture Natural-Batch TGO4503154

Batch ID:	TGO4503154	Test ID:	8825391.021
Reported:	30-Nov-2019	Method:	Edible - Test Methods: TM05, TM06
Type:	Edible		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
<i>E. coli</i>	None Detected
<i>Salmonella</i>	None Detected

* CFU/g = Colony Forming Unit per Gram

** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: $10^2 = 100$ CFU
 $10^3 = 1,000$ CFU
 $10^4 = 10,000$ CFU
 $10^5 = 100,000$ CFU

NOTES:


Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

FINAL APPROVAL



Robert Belfon
30-Nov-2019
6:10 PM



Mike Branvold
30-Nov-2019
8:23 PM

PREPARED BY / DATE

APPROVED BY / DATE

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prepared for: RAD EXTRACTION
860 COMMERCIAL LANE
PALMER LAKE, CO 80133

450mg Tincture Natural-Batch TGO4503154

Batch ID:	TGO4503154	Test ID:	1776426.004
Reported:	5-Dec-2019	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		



RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

NOTES:

Free from visual mold, mildew, and foreign matter.

FINAL APPROVAL

	Karen Winternheimer 5-Dec-2019 2:54 PM		Greg Zimpfer 5-Dec-2019 3:53 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02


450mg Tincture Natural-Batch TGO4503154

Batch ID:	TGO4503154	Test ID:	T000039309
Reported:	12-Dec-2019	Method:	Arsenic = Arsenic EPA 6020A (mod), Cadmium = Cadmium EPA 6020A (mod), Lead = Lead EPA 6020A (mod), Mercury = Mercury EPA 6020A (mod)
Type:	Other		
Test:	Metals		


HEAVY METALS

Compound	Reporting Limit (ppm)	Result (ppm)
Arsenic	0.05	<0.05
Cadmium	0.05	<0.05
Lead	0.05	<0.05
Mercury	0.05	<0.05

FINAL APPROVAL

 Alex Smith
12-Dec-2019
7:11 AM

PREPARED BY / DATE

 Greg Zimpfer
12-Dec-2019
8:24 AM

APPROVED BY / DATE

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